

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-166362

(43)Date of publication of application : 22.06.2001

(51)Int.Cl.

G03B 15/05  
G03B 15/03

(21)Application number : 11-352850

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(22)Date of filing : 13.12.1999

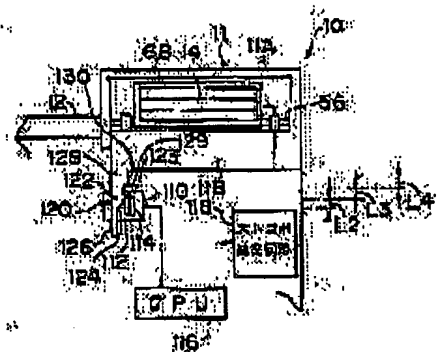
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## (54) CAMERA WITH BUILT-IN STROBOSCOPE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a camera with a built-in stroboscope capable of inhibiting the light emission of a stroboscope at an appropriate position when the stroboscope is moved in a housing direction by providing a switch for inhibiting the light emission of the stroboscope in a camera main body and arranging the switch so that the opening/closing direction of the switch may be orthogonal to the moving direction of the stroboscope, with respect to a camera with a built-in stroboscope equipped with a movable stroboscope capable of moving to the housing position and the light emitting position of a camera main body.

**SOLUTION:** In this camera, a leaf switch 110 for inhibiting the light emission of the stroboscope 10 is arranged so that the movable direction of the movable contacts 112 and 114 of the switch 110 may be orthogonal to the moving direction of the stroboscope 10. A plate 120 to be closed by pressing the switch 110 is provided in the stroboscope 10, and the switch 110 is closed at a position where the stroboscope 10 is moved to the terminal position of a range where the strobe light is not intercepted by the camera main-body 12.



## LEGAL STATUS

[Date of request for examination]

12.06.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]



## Japanese Patent Laid-open Publication

JP-A 2001-166362

## CAMERA WITH BUILT-IN STROBOSCOPE

Laid open to public: 22 June 2001  
 5 Appl. No. 11-352850  
 Filed: 13 December 1999  
 Applicant(s): Fuji Photo Optical Co., Ltd.  
 Inventor(s): H. Kobayashi

See the patent abstract attached hereto.

10 Partial translation

Page 3, left column, lines 14-22

In Fig. 1, a flash built-in camera 1 according to an  
 embodiment of the present invention is shown. A camera  
 body 2 of the camera 1 has a front face, where a taking  
 15 lens barrel 3, a window 4 and a viewfinder window 5 are  
 disposed in predetermined positions, the taking lens barrel  
 3 being constructed for zooming, the window 4 being  
 provided with an auto focus sensor and an exposure sensor.  
 A movable flash unit 10 according to the embodiment of the  
 20 invention is disposed at a right-hand upper corner in Fig.  
 1 on the front face of the camera body 12. Furthermore, a  
 shutter button 6 is disposed on a left side of an upper  
 face of the camera body 12, and operable by a right hand of  
 a cameraman.

25 Page 3, right column, lines 3-7

Therefore, force of motion of the driving motor driven  
 for forward/backward rotations is transmitted to the cam  
 rack 20. The cam rack 20 moves up or down by guiding of  
 the guide pins 34 and 36 with the slots 30 and 32.

30 Page 3, right column, lines 40-48

In rotation of the double-speed lever 24 in this  
 direction, movement of the cam rack 20 is transmitted to  
 the lever 52 in a double state of the stroke of the  
 movement by the double-speed lever 24. Thus, the lever 52  
 35 rotates clockwise about the pivot 56. The upper face 53 of

the lever 52 comes in contact with the projection 62 on the inside of the flash case 11, to push up the flash case 11. This operation causes the flash case 11 to rotate clockwise about the pivot 56 against the bias of the coil spring 80, and comes to the flash emitting position shown in Fig. 3.

Relation of claim 1 of the application to the document

The features of claim 1 include a flash emitting unit, and a ring-shaped gear in connection for shifting the flash emitting unit. However, no ring-shaped gear in a camera is disclosed in the document. The document is only a background of the invention.